

Fig. 1

Altitude or hypobaric environment

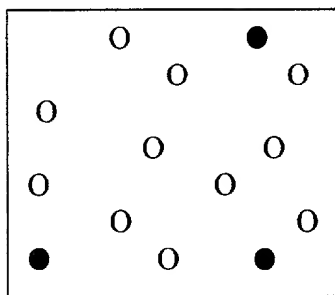


Fig. 2

Normbaric hypoxic environment

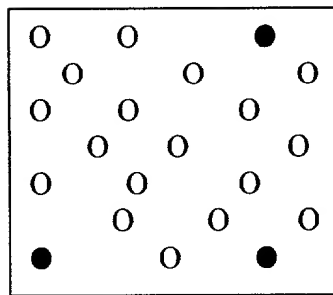
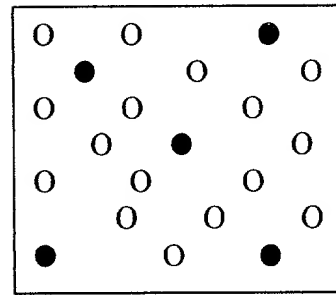


Fig. 3

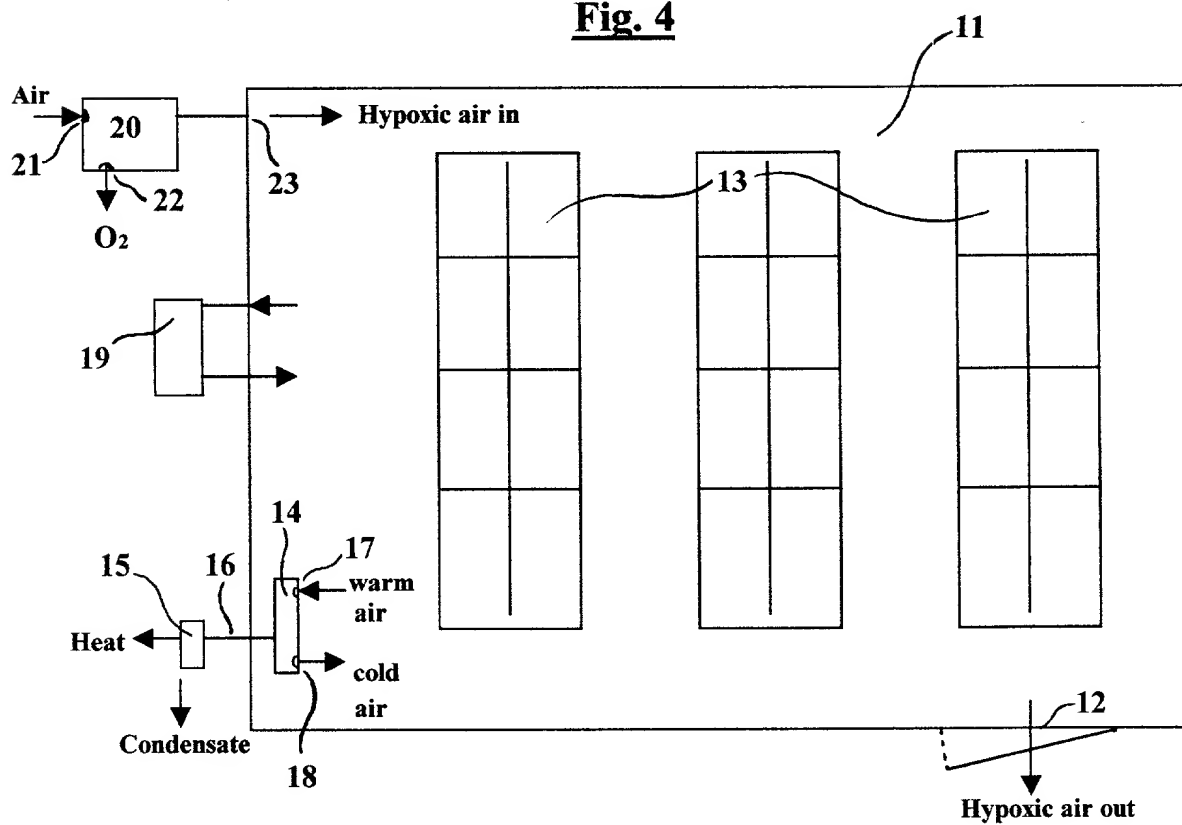
Normbaric normoxic environment



● – oxygen molecules

○ – nitrogen molecules

Fig. 4



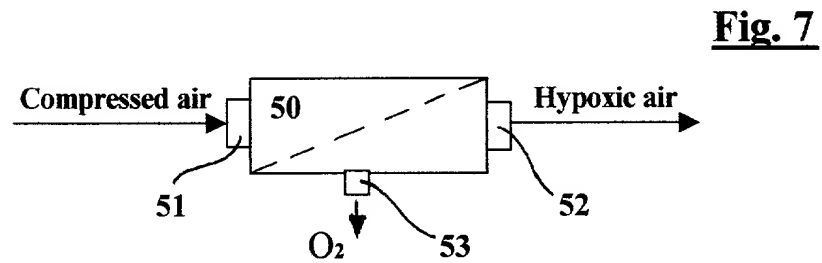
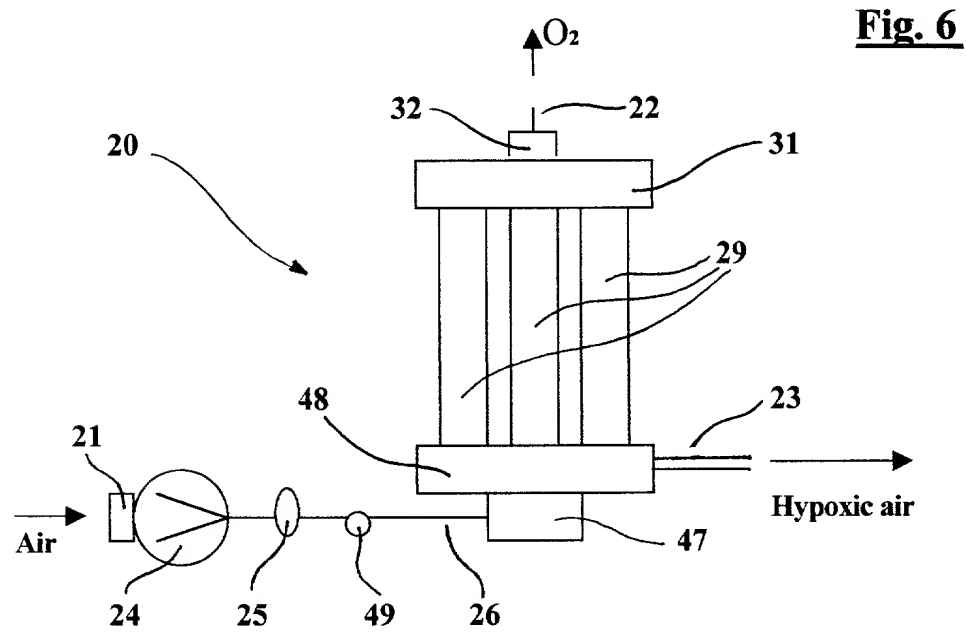
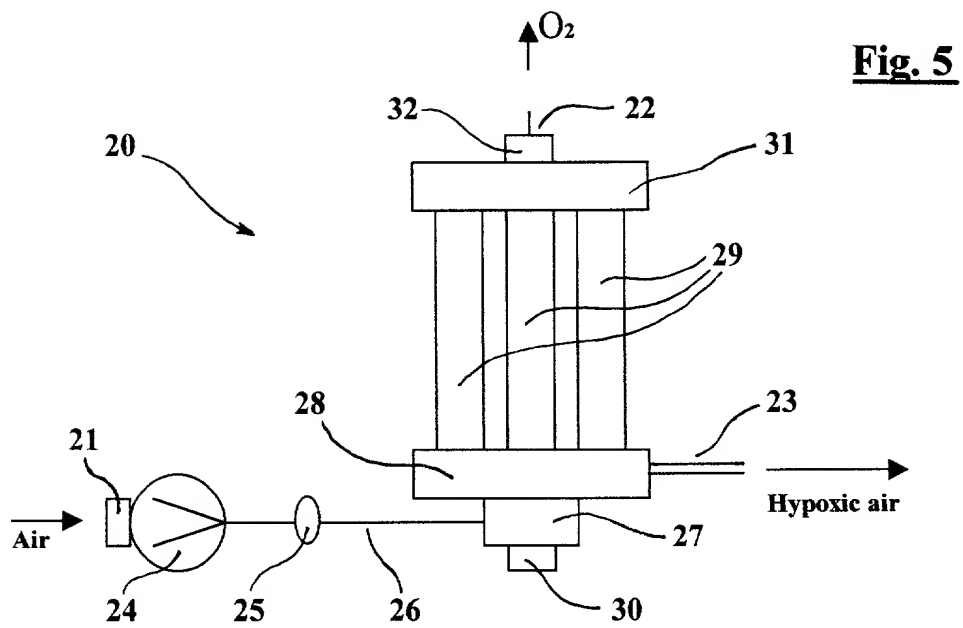
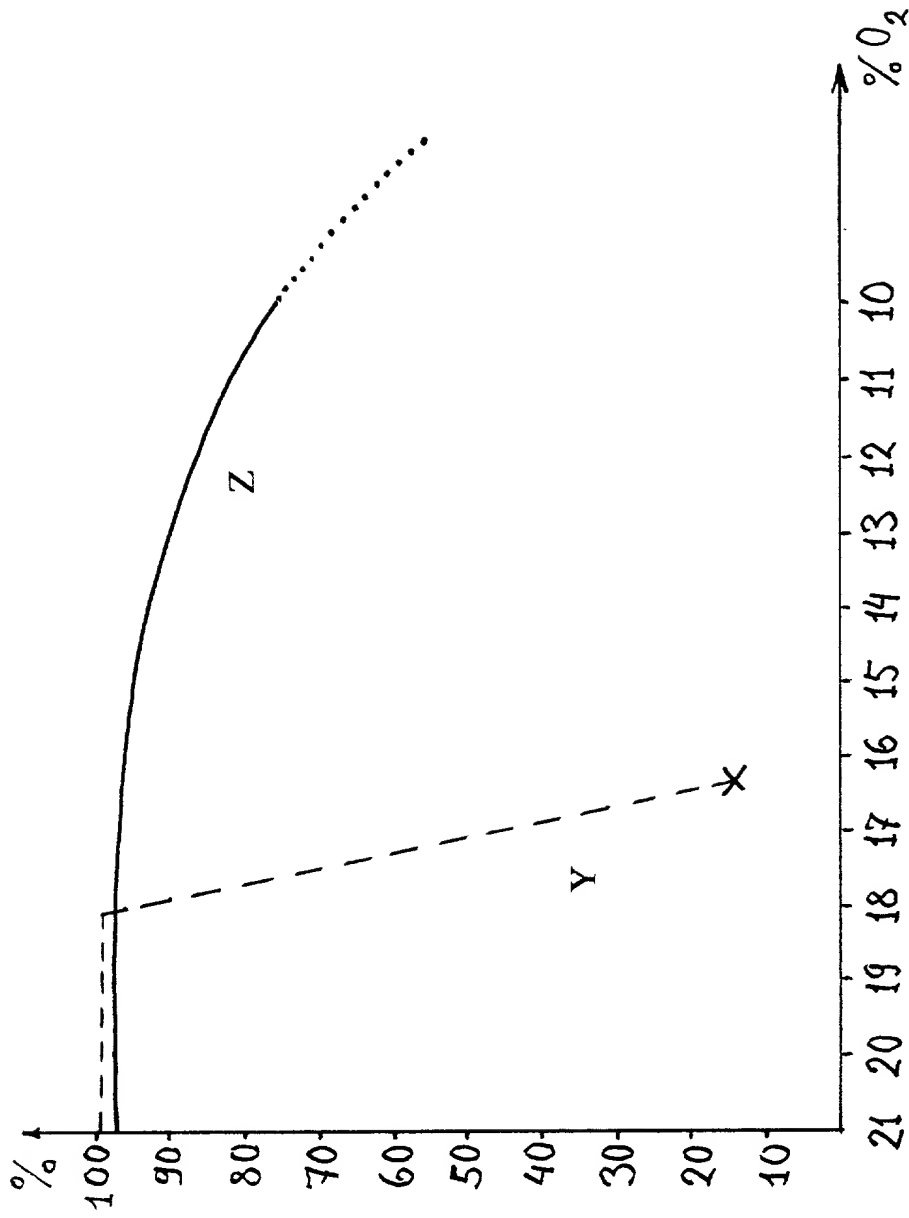


Fig. 8



Z - The oxygen hemoglobin saturation curve

Y - The flame extinction curve in oxygen - reducing atmosphere

Fig. 9 is a cross-sectional view of the apparatus of Fig. 8, showing the internal components and the flow of the fluid from the source 97, through the pump 92, and into the chamber 91.

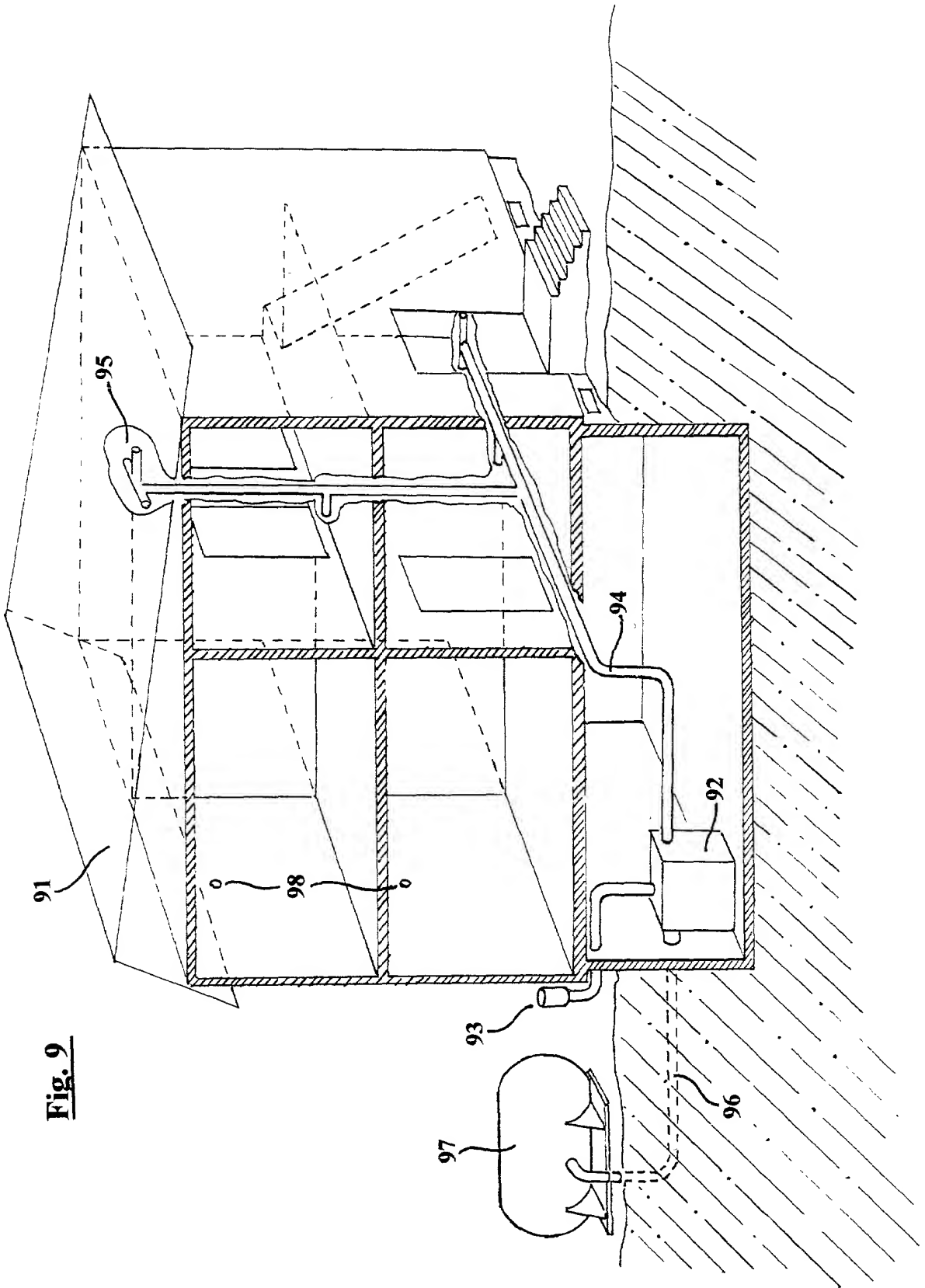


Fig. 9

Fig. 10

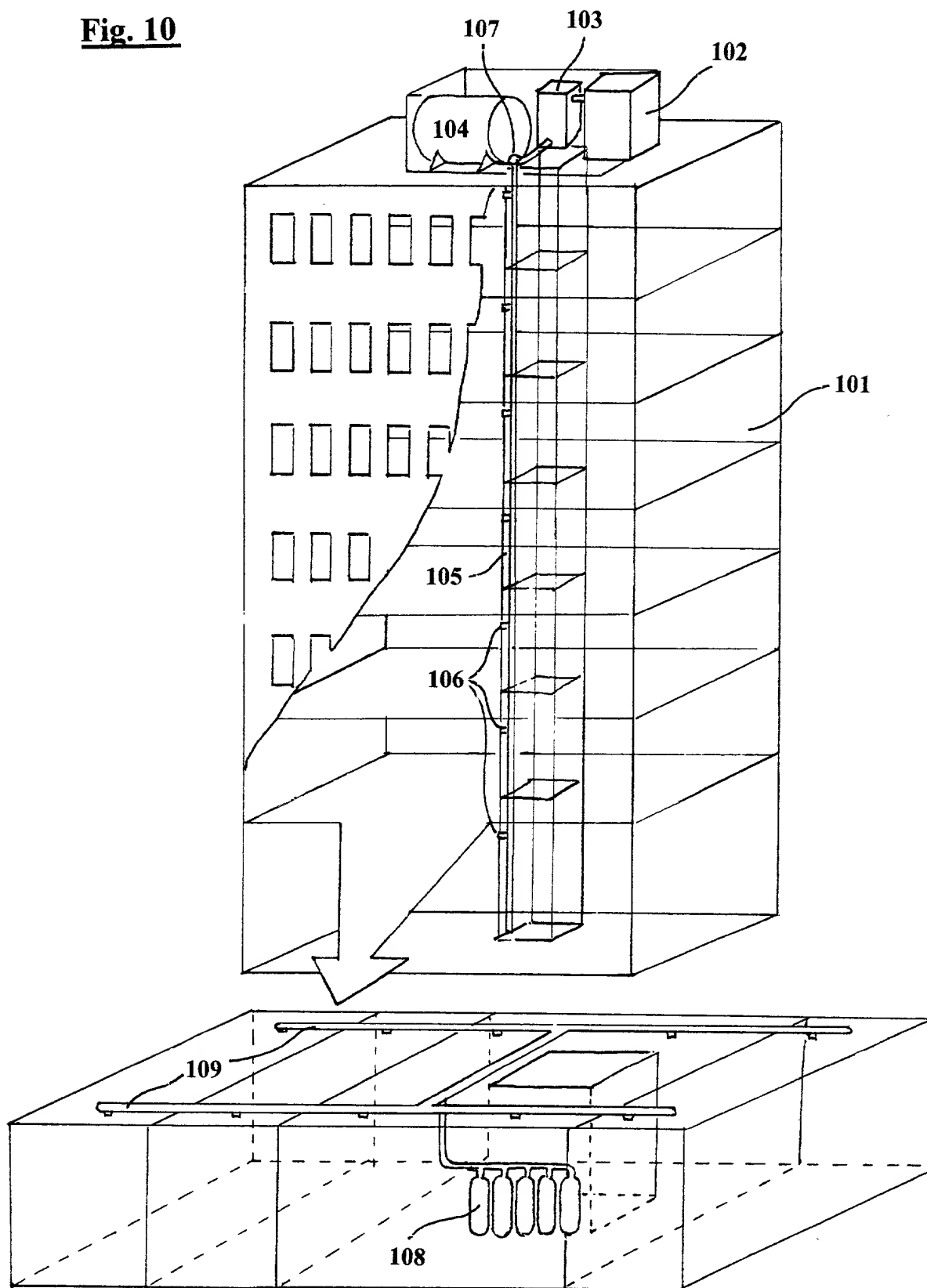


Fig. 11

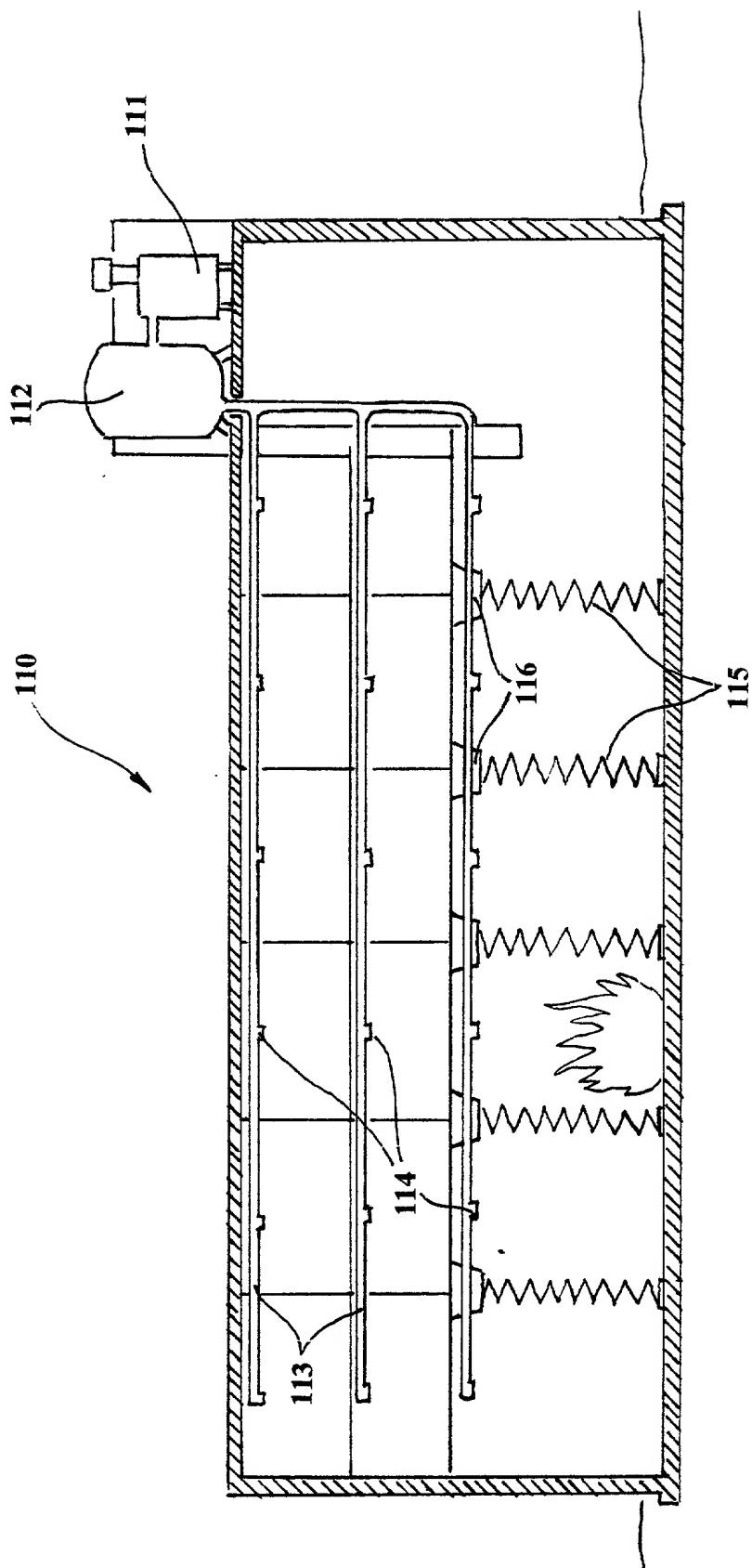


Fig. 12

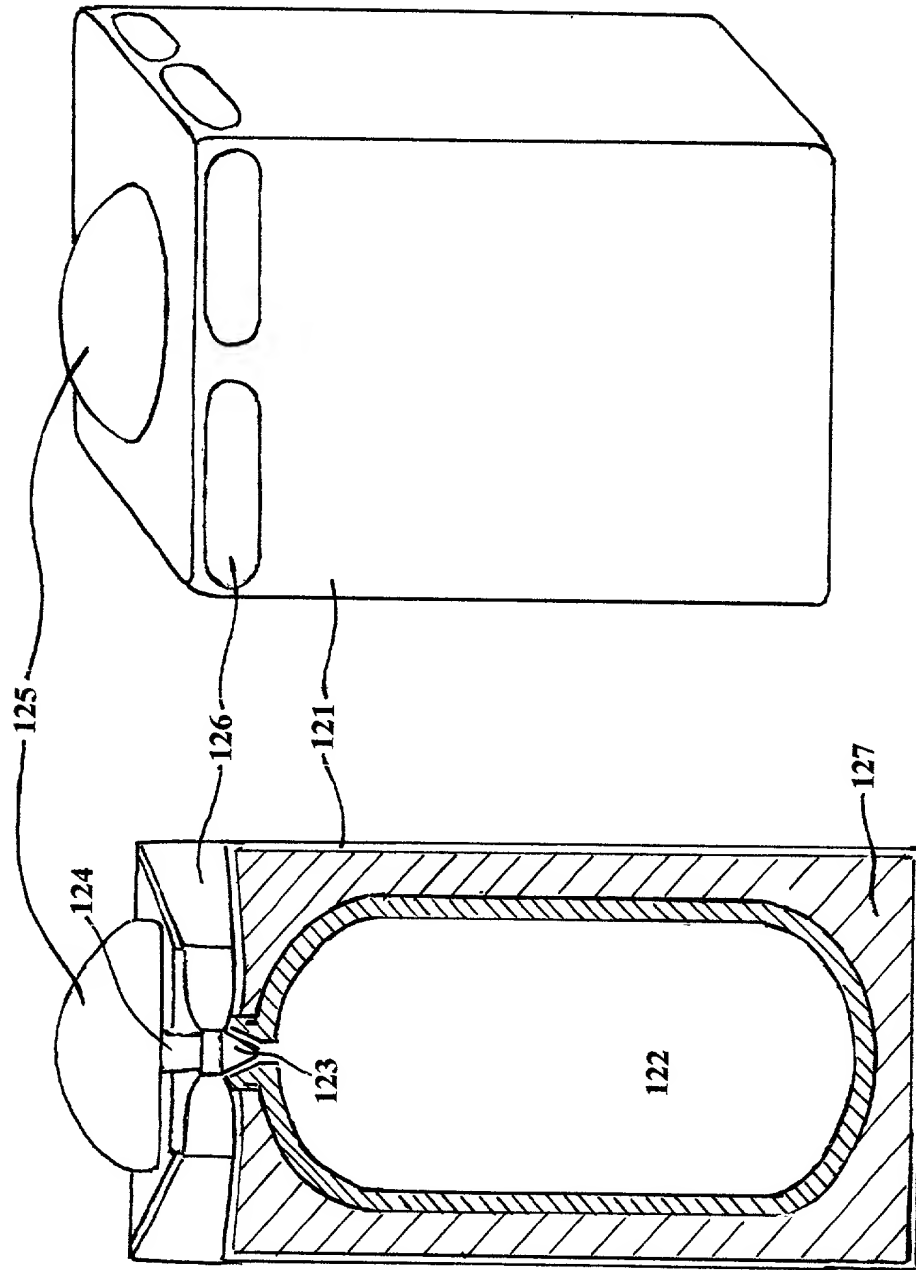


Fig. 14 is a plan view of the system of Fig. 13, showing the layout of the system in a plan view.

Fig. 14

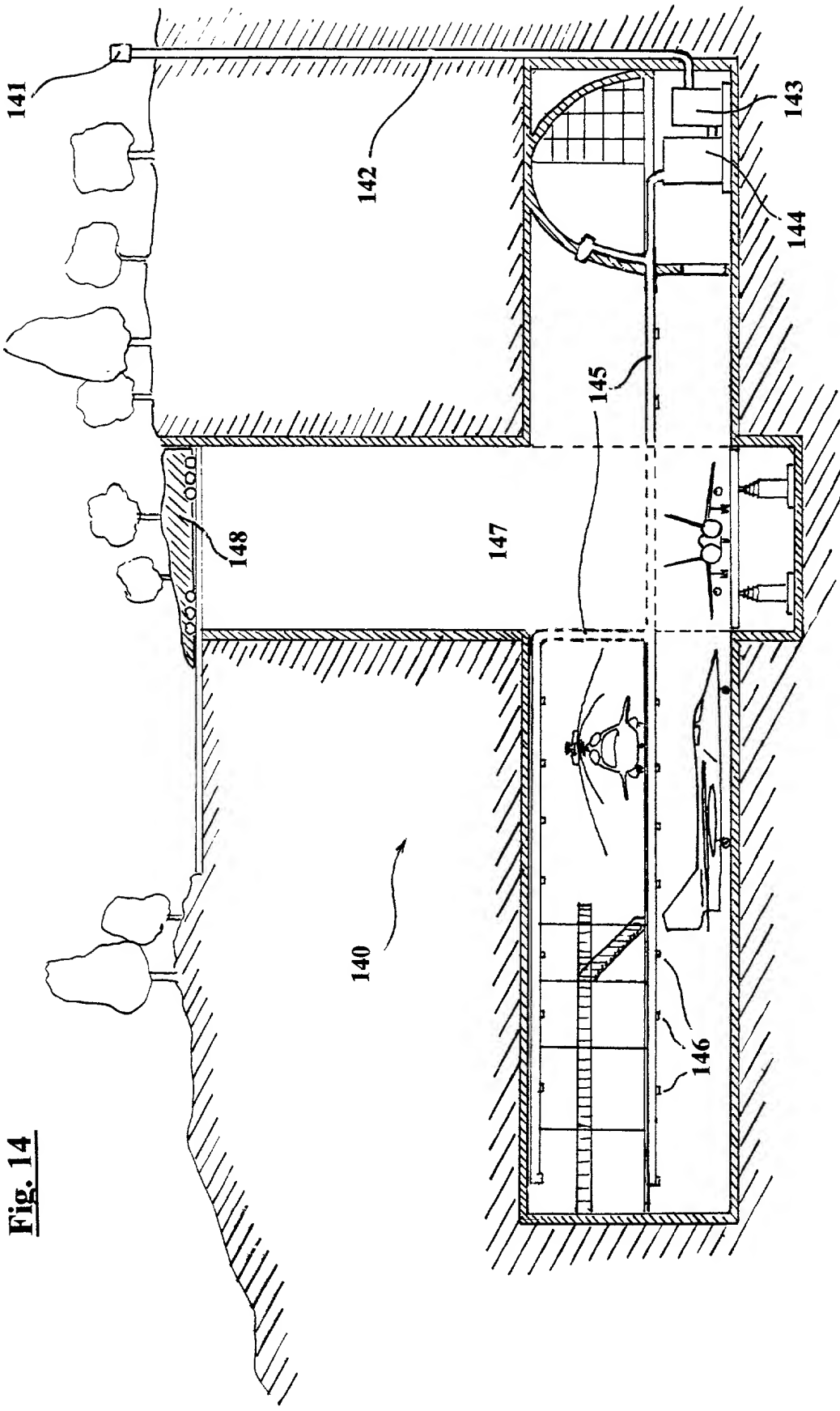


Fig. 15 is a cross-sectional view of the system of Fig. 1, taken along line A-A of Fig. 1, showing the system installed in a road structure.

Fig. 15

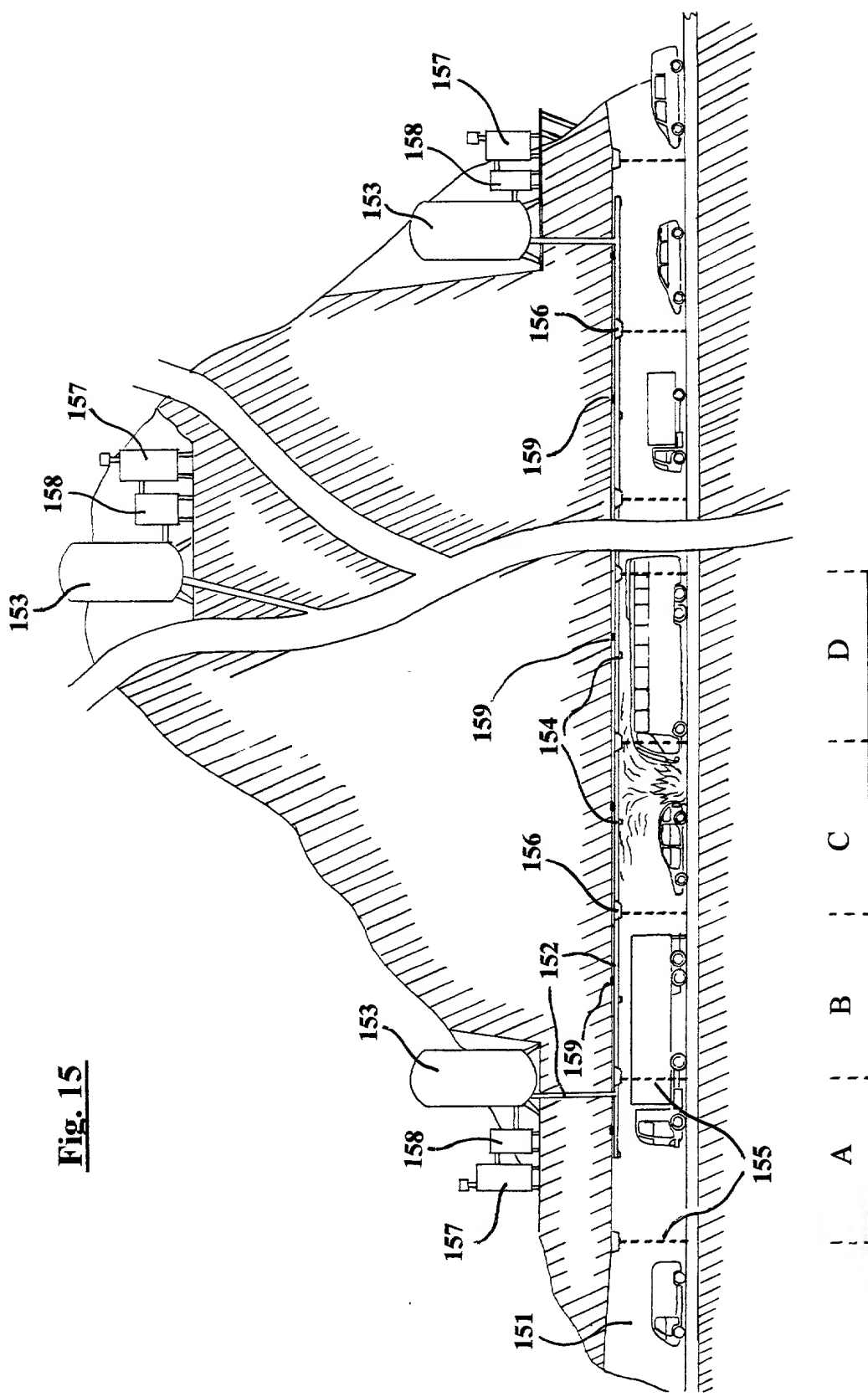


Fig. 16

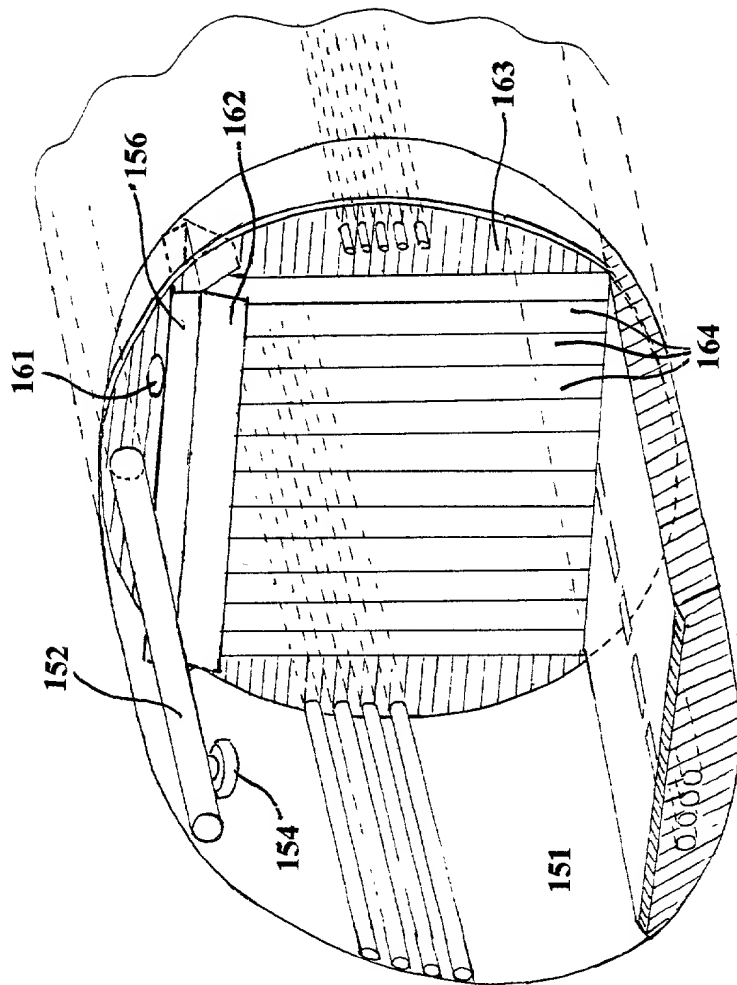
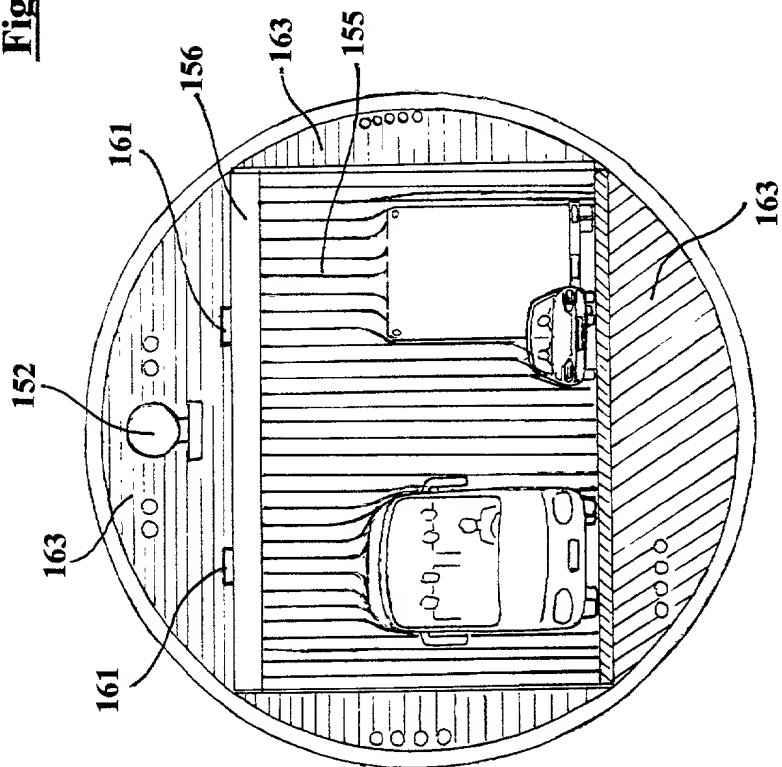


FIG. 17 is a cross-sectional view of the system of FIG. 16, showing the system installed in a wall. The system includes a first sensor unit 171, a second sensor unit 172, and a control unit 173. The first sensor unit 171 is connected to the second sensor unit 172, which is connected to the control unit 173. The control unit 173 is connected to a power source 174. The system is installed in a wall 175. The first sensor unit 171 is connected to the second sensor unit 172 by a cable 176. The second sensor unit 172 is connected to the control unit 173 by a cable 177. The control unit 173 is connected to the power source 174 by a cable 178. The system is shown in a cross-sectional view of the wall 175.

Fig. 17

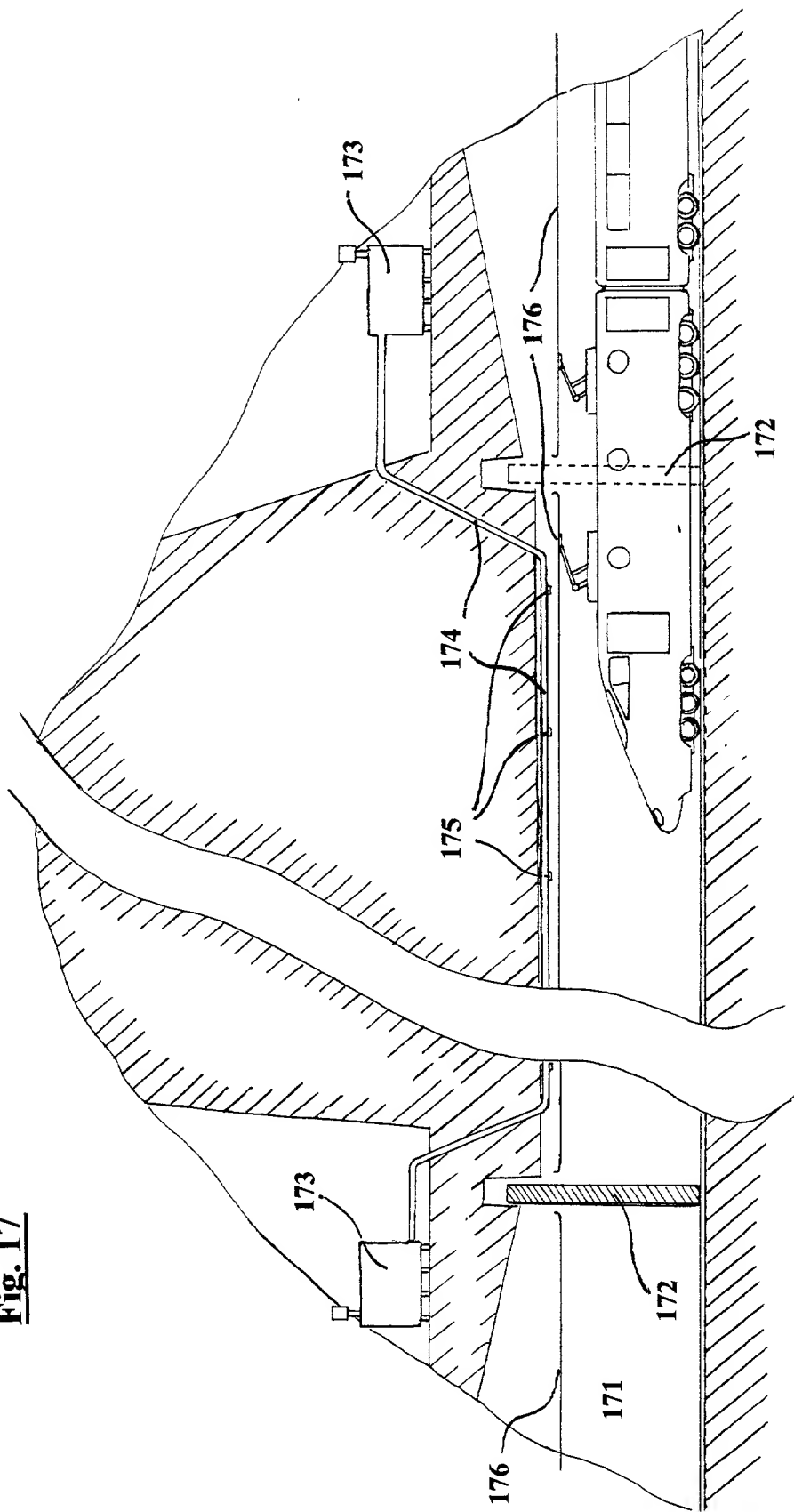


Fig. 18

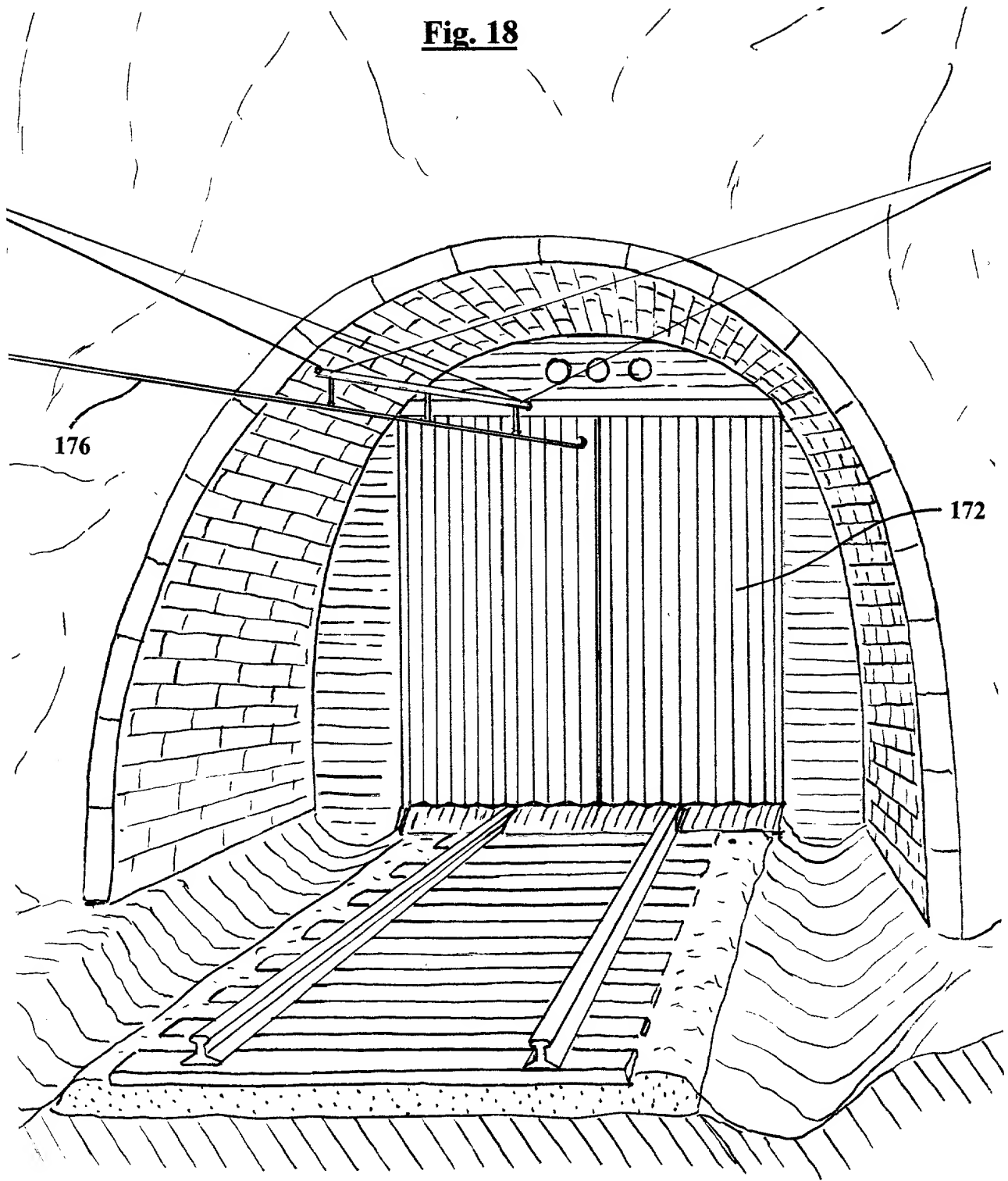


FIG. 19 is a perspective view of the system of FIG. 18, showing the system installed in a trench.

Fig. 19

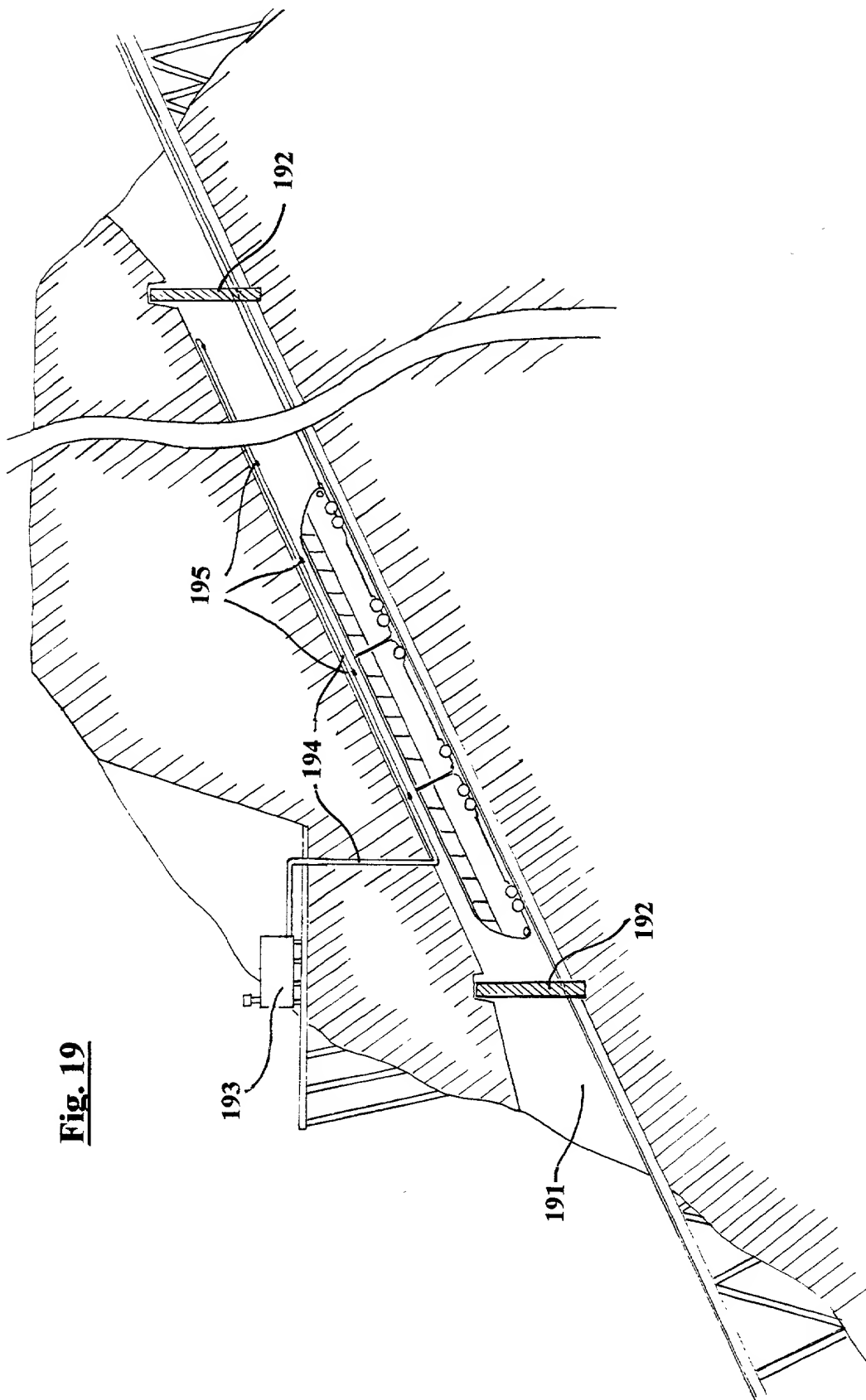


Fig. 20

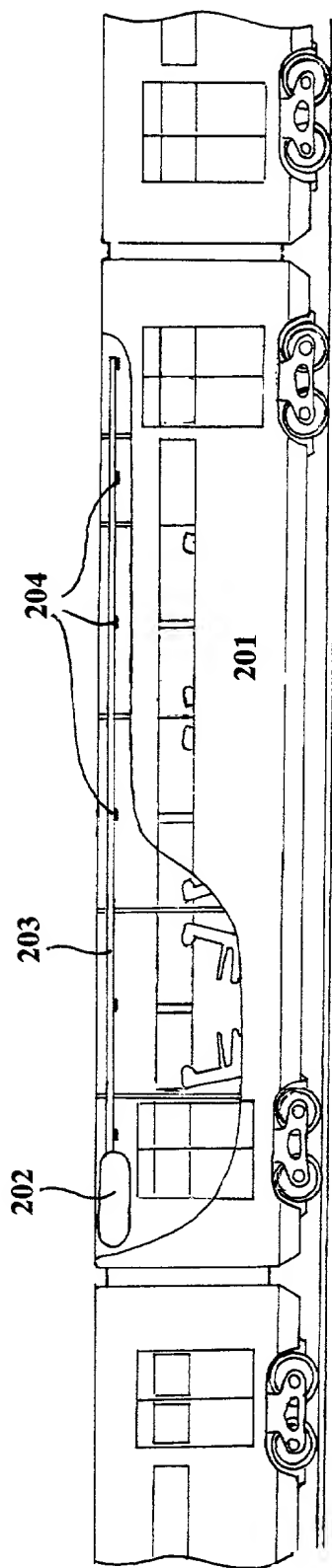


Fig. 21

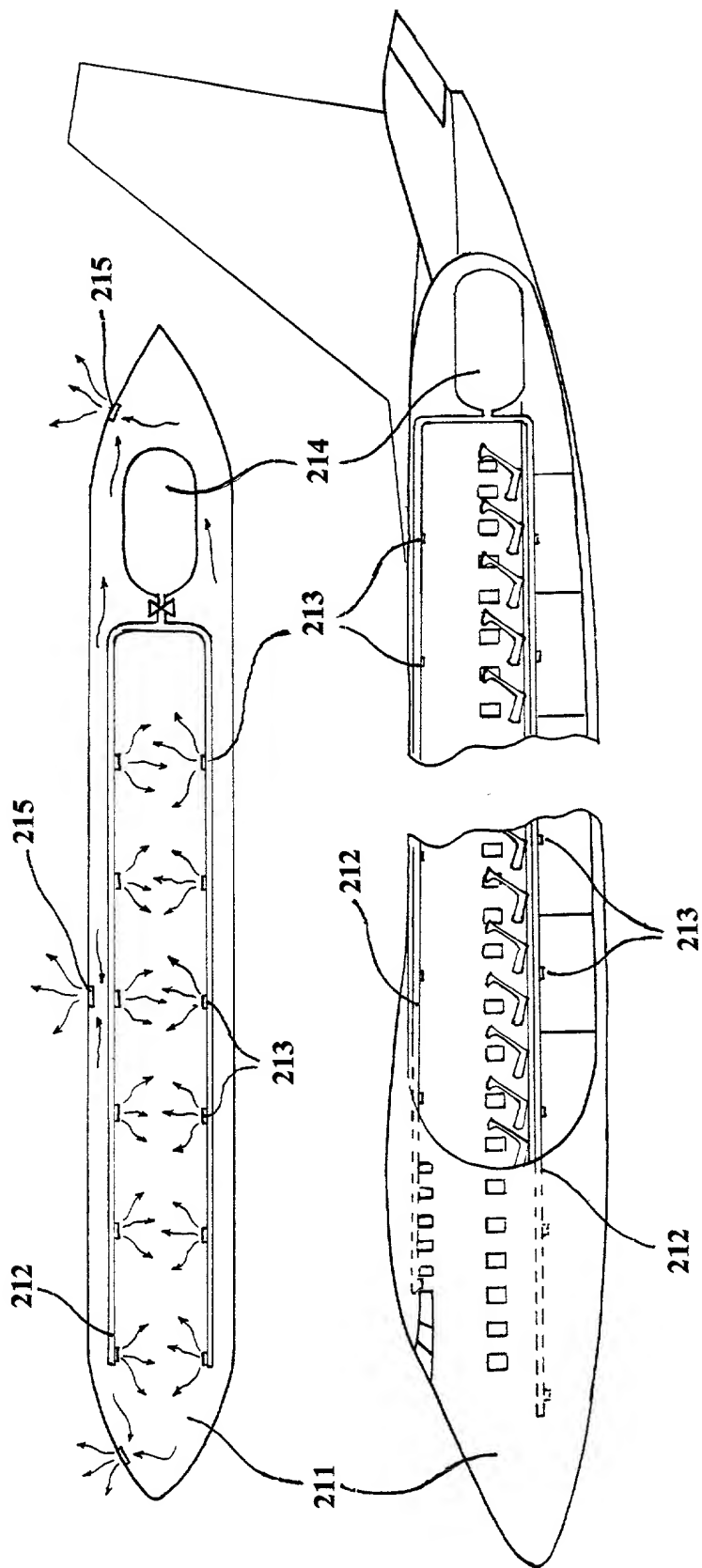


Fig. 22

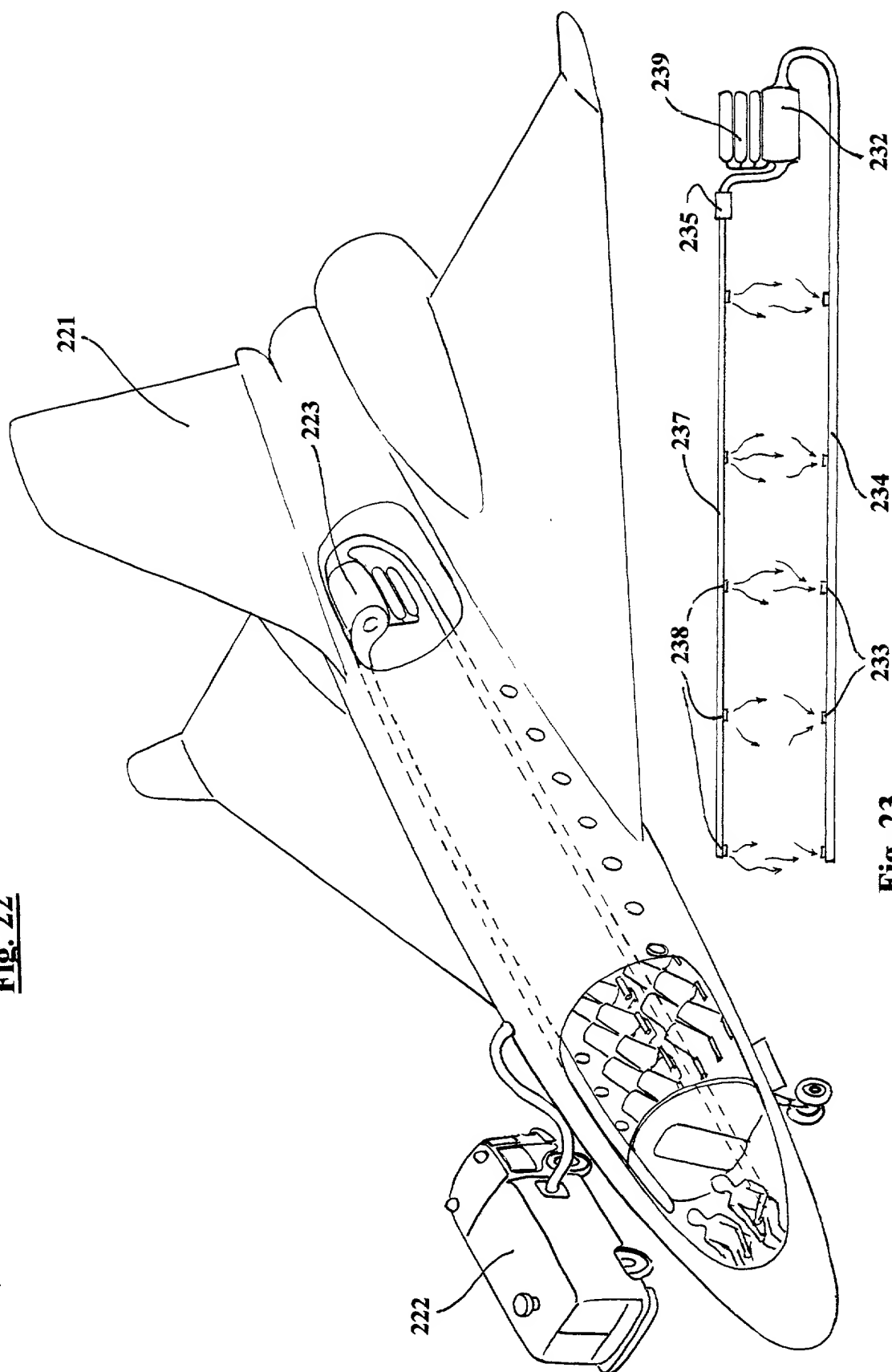


Fig. 23

Fig. 24

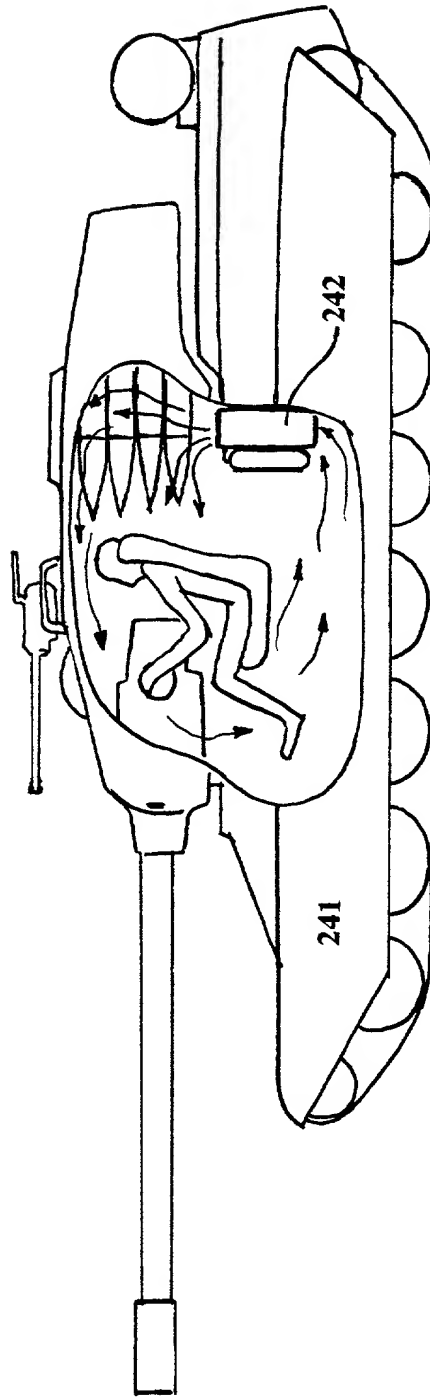
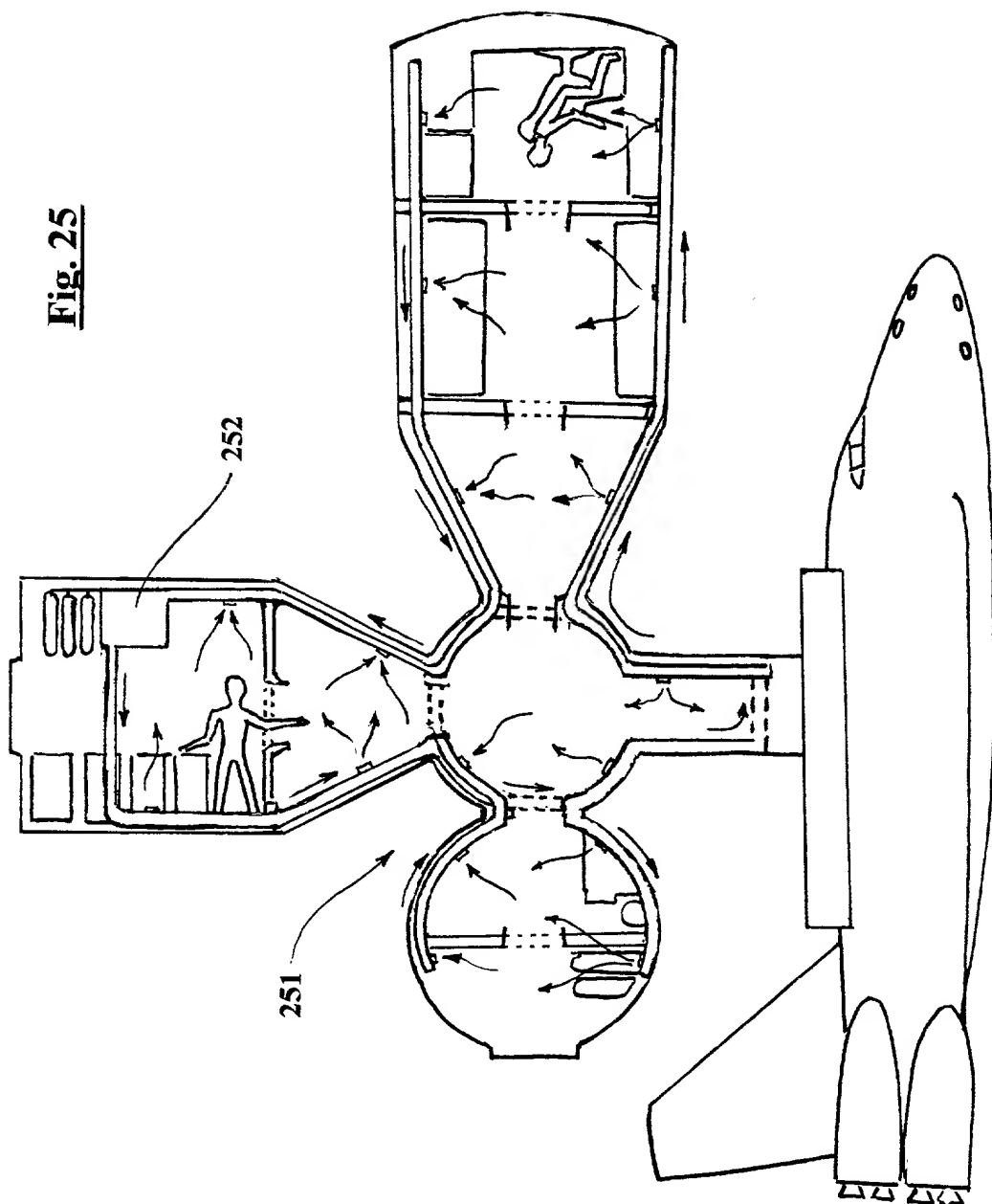


Fig. 25



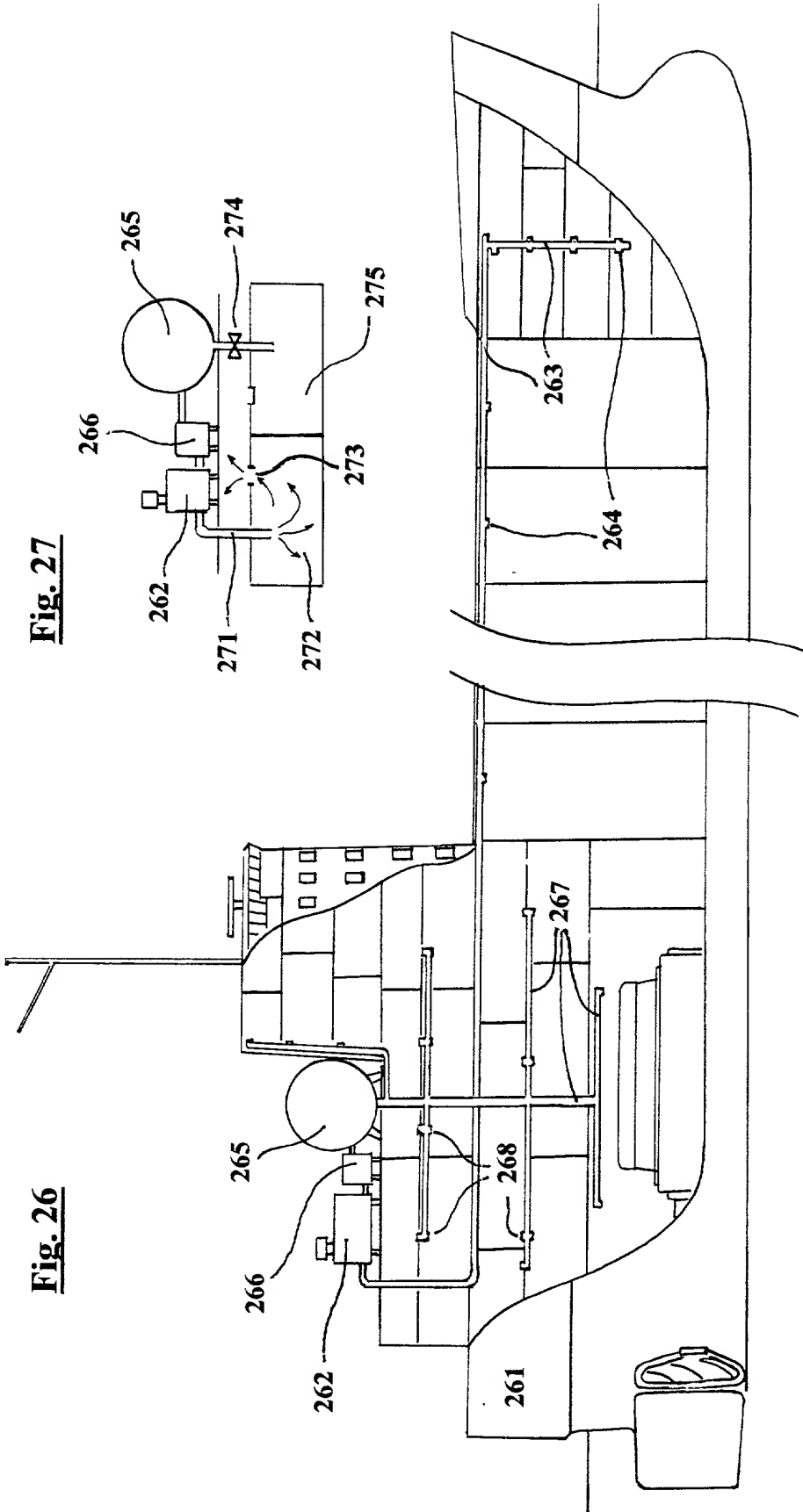


Fig. 27

Fig. 26